

# PATENT ABSTRACTS OF JAPAN

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(21)Application number : 06-270417 (71)Applicant : ICHIMARU PHARCOS CO LTD

(22)Date of filing : 06.10.1994 (72)Inventor : KAWAI NORIHISA  
KOU KEN  
CHIKAMATSU YOSHIHIRO  
ANDO HIROSHI

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## (54) EXTERNAL PHARMACEUTICAL PREPARATION CONTAINING ZINC PHYTATE AS ACTIVE INGREDIENT

### (57)Abstract:

**PURPOSE:** To obtain an agent for suppressing production of lipid peroxide or a lipid peroxide-decomposing (or removing) agent and a chopped skin improver, an external agent for skin and a bathing agent, containing zinc phytate as an active ingredient.

**CONSTITUTION:** This external Pharmaceutical preparation contains, as an active ingredient, zinc phytate which is a compound obtained by chelating zinc with phytic acid in an amount of 0.0002 to 10wt.% based on total amount of the preparation. Zinc phytate is free from irritation to skin, has high safety and can be prepared in medicines, quasi-drug, cosmetics. This preparation is effective in preventing aging of skin, e.g. preventing flabbiness or drabness of skin, providing gloss and controlling fine texture. The skin preparation is effective in preventing chapped skin, dryness, etc., and the quality is stable over a long period. The preparation can be prepared in forms of liquid, lotion, cream, ointment, gel, powder, granule, solid and foam.

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<p>96-255077/26 B05 D21 E11 ICHP 94.10.06          ICHIMARU PHARCOS INC *JP 08104635-A          94.10.06 94JP-270417 (96.04.23) A61K 31/66, 7/00, 7/02, 7/075,          7/48, 7/50          New external prepn. phytic acid zinc salt - used as inhibitor of lipid          peroxide          C96-080883</p>	<p>B(5-B1F, 12-M6, 14-N17) D(8-B9A) E(5-L3C) .3</p>
<p>Inhibitor or degradation agent of lipid peroxide comprises phytic acid          zinc salt. Also claimed are i) rough skin improving agent contg. phytic          acid zinc salt and ii) skin external agent and bathing agent contg.          phytic acid zinc salt.</p> <p>Phytic acid zinc salt is chelated cpd. obtained by reacting phytic acid          with zinc cpd. such as Zn(OH)2, ZnCO3, Zn(NO3)2, ZnSO4,          Zn3(PO4)2, ZnCl2, etc.. The ratio of phytic acid and zinc cpd. is 1:1-          1:8, pref. 1:6. The amt. of phytic acid zinc salt in the prepn. is 0.0002-          10 wt.%, pref. 0.001-5 wt.%.</p> <p><u>USE/ADVANTAGE</u>          Phytic acid zinc salt can be used in prepn. such as medicine, quasi          drugs or cosmetics because it does not irritate skin and is safe. The          skin external medicine and bathing agent are used for the prevention</p>	<p>and improvement of rough skin or dry skin, also prevent sagged skin          or darkish skin, and are effective for the prevention of skin ageing.          The skin external medicine and bathing agent prevent degradation of          the quality of the products, and are improved in stability and safety.</p> <p>Phytic acid (C6H19O24P6; molecular wt. 600.04, content 50 %) (26.4          g) was dissolved in purified water, and adjusted at pH 4 with 1N          NaOH to give 0.1M phytic acid salts soln. Zinc acetate (26.34 g) was          dissolved in purified water to make 0.6 M zinc acetate soln. (200 ml).          The solns. were mixed, stirred for 30 mins., and centrifuged at 5,000          rpm for 10 mins. Purified water was added to the residue, and          centrifuged again. This process was repeated three times to remove          unreacted phytic acid and zinc acetate completely. The obtained          residue was powdered to give 19.69 g of phytic acid zinc salt, which          proved to have phytic acid and zinc in the ratio of 1:5.          (9ppDwgNo.0/3)</p>
	<p>JP 08104635-A</p>